

SEVERE LOCAL STORMS, JULY 1943

(Compiled by Mary O. Souder)

[The table herewith contains such data as has been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Gallatin County, Mont.	1	7 p. m.	12	-----	-----	Heavy hail.	Severe damage to peas, alfalfa, and barley; path 5 miles long.
Chouteau County, Mont.	3	P. m.	13	-----	\$5,000	Hail.	Light to moderate damage to crops; path 6 miles long.
Cullison, Kans., 3 miles west.	4	3:45 p. m. central war time.	12½	-----	1,800	Heavy hail.	Loss in crops; path 10 miles long.
Hot Springs, S. Dak., vicinity of.	4	5-5:30 p. m.	-----	-----	9,000	do.	Loss in spring wheat, oats, and rye; some stock killed; path narrow.
Sutherland, Iowa.	4	6:30 p. m.	220	0	15,000	Tornado and hail.	A funnel cloud traveled from northwest to southeast. The storm track continued into Buena Vista County as described below.
Clay and Buena Vista Counties, Iowa.	4	7:30 p. m.	11-5	-----	175,000	Rain, wind, and flood.	This track of destruction is probably a continuation of the Sutherland tornado. Loss in crops, and property damaged.
Pocahontas County, Iowa.	4	8-8:30 p. m.	12-4	0	75,000	Tornado and hail.	Crop loss 5 to 25 percent; property damaged.
Calhoun and Webster Counties, Iowa.	4	8:40 p. m.	13	-----	175,000	Wind, hail, and rain.	Property damaged; path 10 miles long.
Roswell, S. Dak., and vicinity.	4	9:30 a. m.	12	0	40,000	Heavy hail.	Hail, size of hazel nuts, extending from 1 mile west of Roswell for 30 miles to east of county line; poultry killed and crops destroyed with worst damage in 9 mile strip.
Pike County, Ind.	5	3 p. m.	880	-----	500	Wind.	Buildings and trees damaged.
Nemaha County, Nebr.	5	3:15-4 a. m.	120	-----	150,000	Straight-line wind	Property damage and loss in livestock, \$50,000; crop loss, \$100,000.
Cass County, Ind.	5	5 p. m.	15	-----	25,000	Wind.	Trees, poles, and wires down.
Bethlehem Center, N. Y.	5	-----	-----	-----	20,000	Thunderstorm.	2 barns and contents burned.
Judson, Ind.	6	2 p. m.	50	0	600	Tornado.	Funnel cloud observed; path from northwest to southeast.
Denver, Colo.	6	6:30 p. m.	-----	-----	50,000	Thunderstorm.	Lines and transformers disrupted; property damaged; 4 persons injured.
Halifax, Va.	6	P. m.	12	-----	3,000	Hail.	Loss in crops, chiefly tobacco; path 4 miles long.
Ogala, S. Dak., vicinity of.	7	4-4:50 p. m.	13	-----	4,000	do.	Loss in crops; path 6 miles long.
Hill City to Custer, S. Dak.	7	-----	12	-----	4,500	Heavy hail.	Property damaged, \$1,500; loss in crops, \$3,000.
Prairie and Dawson Counties, Mont.	8	5-8 p. m.	110	-----	200,000	do.	Loss in crops.
Houston, Tex.	8	7:30 p. m.	-----	1	-----	Tornado.	Considerable property damage; no crop loss.
Rice County, Mont.	8	9 p. m.	-----	-----	200,000	Hail.	Estimated 25 percent of crops in county touched by hail.
Tula, Tex.	8	P. m.	15-10	-----	-----	do.	Hundreds of thousands of dollars total damage; 175 sheep and 450 chickens killed.
McCone County, Mont.	9	7 p. m.	12	-----	30,000	Heavy hail.	Loss in crops; path 5 miles long.
Fergus County, Mont.	10	4 p. m.	440	-----	2,000	Hail.	Do.
Prairie to Dawson Counties, Mont.	10-11	11 p. m.-2 a. m.	12	-----	20,000	Moderate to heavy hail.	Crop loss \$20,000; considerable property damaged, not estimated.
McCone County, Mont.	11	3 a. m.	-----	-----	5,000	Wind.	Property damaged.
Wibaux County, Mont.	11-12	11:30 p. m.-1 a. m.	12½	-----	3,500	Hail.	Loss in wheat and flax; path 40 miles long.
Prairie to Dawson Counties, Mont.	12	Midnight-2 a. m.	12-40	-----	150,000	Wind and hail.	Severe crop loss and considerable property damage; path from 15 to 40 miles long.
Morrill County, Nebr., western portion.	12	7 p. m.	14-8	-----	400,000	Heavy hail.	Loss in crops; roads and bridges washed out. Storm struck mostly irrigated and very productive farming area.
York County, Pa.	12	P. m.	-----	-----	5,000	Electrical.	Damage to property; loss in crops.
Minnesota, extreme northern counties.	12	12 p. m.-2:40 a. m.	150	-----	470,000	Thundersqualls.	Property damaged; some livestock and much poultry killed; loss in growing crops not estimated; path 200 miles long.
Carlisle, Pa.	14	9 p. m.	-----	-----	8,000	Electrical.	Barn burned.
Ravalli, Mont.	15	1 a. m.	880	-----	500	Moderate hail.	Damage to seed peas.
Critz to Martinsville, Va.	15	4 p. m.	12	-----	5,000	Thundersquall.	Corn flattened; chief loss in tobacco; path 15 miles long.
Lake Byron, S. Dak., and vicinity.	15	5-5:40 p. m.	4-6	-----	-----	Heavy hail.	Spotted damage to crops, especially small grain; some fields complete loss; path 12 miles long.
Edmond, Kans., 1 mile northwest.	15	7-7:30 p. m.	34	-----	1,000	Wind.	Although a vortex cloud was not observed during this storm, tornado characteristics were visible. Buildings on a farm were badly damaged; path 880 yards long.
America Fork, Utah, vicinity of.	15	-----	-----	-----	30,000	Wind, rain, and hail.	10,000 turkeys valued at \$30,000 lost; some loss in raspberries; damage to grain quite extensive; some flood damage in vicinity of Pleasant Grove.
Sherman and Thomas Counties, Kans.	16	8-9 p. m.	-----	-----	75,000	Hail and wind.	Storm occurred in eastern Sherman and western Thomas Counties. One branch of the storm struck in northeastern another in southwestern Thomas County. Chief loss to crops from hail and considerable damage to rural property by wind; path 25 miles long.
Ness County, Kans.	17	12:30-2:30 a. m.	14	-----	-----	do.	Hail extended over a path about 4 miles wide and 28 miles long, from Utica to near Bazine, Kans., with loss in crops and damage to property. Considerable damage from wind in Ness City; not estimated.
Fallon County, Mont.	17	-----	18	-----	7,500	Hail.	Loss in crops; path 25 miles long.
Charlottesville, Va., vicinity of.	17	-----	-----	1	10,000	Wind, rain electrical.	Dairy barn blown down killing a woman while milking; loss in livestock; damage to property.
Pipestone, Lyon, Redwood, and Faribault Counties, Minn.	18	1:40 p. m.	0	-----	1,615,000	Possible tornado, hail, and heavy rain.	Barns and buildings damaged; and airport hangar wrecked; poles and wires down; trees uprooted. Loss in growing crops from hail, \$1,325,000; property damaged from wind, \$97,500; from hail, \$290,000.
Cherokee County, Iowa.	18	7:30 p. m.	12-5	-----	500,000	Hail, wind, and rain.	Loss in corn, oats, and soybeans; some areas total loss; soil washed by heavy rains.
Fremont County, Iowa.	19	1 a. m.	12-6	-----	100,000	Hail, rain, and wind.	Loss in corn crop; property damaged; path 10 miles long.
Sioux, Plymouth, Woodbury, and Cherokee Counties, Iowa.	20	10 a. m.	-----	-----	25,000	Wind, electrical.	Property damaged; trees uprooted; communication and power lines damaged; 2 persons injured.
Calhoun County, Iowa.	20	4-7 p. m.	-----	-----	25,000	Hail.	Loss in crops; path several miles wide and from 8 to 12 miles long.
Bay Springs, Miss., vicinity of.	20	5:30 p. m.	-----	-----	700	Wind.	Barn blown down.
Berks County, Pa.	20	P. m.	-----	-----	40,000	Electrical.	2 barns burned.
Critz to Penn's Store, Va.	20	do.	110	-----	2,500	Hail.	Loss in crops, mostly tobacco; path 10 miles long.
Kosciusko County, Ind.	21	6:30 p. m.	12	6	2,000	Wind.	6 persons drowned when boat sank.
Denver, Colo., and vicinity.	21	7:20 p. m.	1	-----	7,000	Electrical and hail.	Houses burned; farms and gardens in the vicinity of Denver damaged by hail but none reported at station.
Marion, Ind.	21	9 p. m.	-----	-----	500	Wind.	Property damaged.
Allen County, Ind.	21	P. m.	-----	-----	1,000,000	Wind and hail.	Loss in crops, \$900,000; property damage, \$100,000. This storm extended into Ohio.
Fernley, Nevada.	21	-----	-----	-----	89,000	Hail.	Chief loss in crops; some property damage.
Johnstown, Pa., vicinity of.	22	A. m.	-----	-----	12,000	Electrical.	Utility services disrupted; barn burned.
Lee County, S. C.	23	do.	-----	-----	10,000	Hail.	Loss in crops.
Pottawattamie County, Iowa.	23	11 p. m.	-----	-----	25,000	Wind and hail.	Crop loss from hail in a few cases over 90 percent; wind damage to buildings \$500.
Roscoe, S. Dak., and vicinity.	23-24	Midnight.	13	-----	5,500	Heavy hail and high wind.	Loss in crops, \$4,000; barn wrecked, \$1,500; path 4 miles long.
Cass County, Iowa.	24	12:30 a. m.	0	-----	20,000	Tornado and hail.	Trees, telephone, power lines, and buildings on at least 6 farms damaged. Loss in crops spotted and heaviest southeast of Wiota, where hail fell in scattered areas.

1 Miles instead of yards.

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SEVERE LOCAL STORMS, JULY 1943—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Emmet County, Iowa.....	24	5 a. m.	-----	-----	5,000	Wind and hail....	Electric service interrupted; some uncut oats flattened with loss in other crops.
Adair County, Iowa.....	24	A. m.	-----	-----	5,000	.....do.....	Scattered loss in crops.
Fargo, Okla.	24	-----	-----	0	-----	Light tornado....	No damage.
Mount Crawford and Elkton, Va.	25	P. m.	-----	-----	1,000	Thunderstorm....	Property damaged; corn flattened.
Lawrence County, Kans.	26	3 a. m.	880	-----	500	Wind.....	Trees and poles down.
Brainerd, Minn., and vicinity	26	7 a. m.	-----	-----	1,000	Thundersquall....	Farm buildings damaged; haystacks scattered; poles and wires down; tree uprooted; loss in growing crops.
Waynesburg, Pa.	26	A. m.	-----	-----	1,000	Electrical and rain	House burned; streets flooded.
Hutchinson and Turner Counties, S. Dak.	26	7:30-8 p. m.	1 3-4	-----	19,550	Wind, rain and hail	Total loss to corn and grain in places: barns, windmills, and dwellings wrecked; some chickens, sheep, and cattle killed.
Sulphur Springs, Tex.	26	7:45 p. m.	1 1	-----	15,000-20,000	Wind and hail....	Loss to crops from hail, \$15,000 to \$20,000; damage from wind light.
Houston, Tex., and vicinity..	26-29	-----	-----	-----	15,000,000	Tropical disturbance	Comparatively little actual damage occurred within the city limits. Several defense plants in outlying areas suffered heavy damage to temporary buildings and scaffolding, but the largest loss to such plants was loss of time and production due to lack of power. Overhead utility lines suffered heavily and many sections of the area were without power, light, and telephone service for several days. Loss in crops from high winds and later damage from excessive rains. Small and experienced growers insist that the good resulting from the generous rains far outweighed the damage suffered from the storm. Chief crop loss, a considerable acreage of early rice being ready for harvest. Immediately following the passage of the storm, 12.19 inches of rain fell in Houston.
Jackson, Minn., and vicinity.	27	5 a. m.	1 4	-----	50,000	Thunderstorm and hail.	Loss in growing crops; path about 16 miles long.
Clearfield, Pa.	27	P. m.	-----	1	12,000	Electrical.....	Utilities disrupted; several fires reported.
Custer County, Mont.	27	-----	1 3	-----	1,500	Hail.....	Path 5 miles long; no details.
Iowa and Washington Counties, Iowa.	28	10:30 a. m.	-----	-----	20,000	Wind.....	10 percent loss in crops over an area several miles long and from 440 to 880 yards wide.
Vigo County, Ind.	28	3:30 p. m.	-----	-----	5,000	.....do.....	Poles and wires down; windows damaged.
Montgomery, Ind.	28	4 p. m.	1 2	-----	10,000	Wind and hail....	Property damage, \$500; loss in crops, \$10,000.
Jackson County, Ind.	28	5 p. m.	1 10	-----	11,500	.....do.....	Trees, poles, wires and windows damaged; crop loss, mostly corn, \$7,500; property damage \$4,000.
McCook and Minnehaha Counties, S. Dak.	28	8 p. m.	1 2	-----	10,000	High wind, heavy rain and hail.	Buildings wrecked; crops stripped and poultry killed.
Carroll County, Iowa.....	28	9:30 p. m.	1 3	0	150,000	Tornadoic wind and hail.	Property damage, \$50,000; loss in crops, \$100,000.
Guthrie and Dallas Counties, Iowa.	28	10:30 p. m.	1 2 1/4	-----	10,000	Wind and hail....	Crop loss from 5 to 50 percent.
Jasper County, Iowa.....	28	11 p. m.	1 3	-----	100,000	.....do.....	Damage from hail, \$75,000; from wind, \$25,000.
Moravia, Iowa.	28	do.	-----	-----	1,500	.....do.....	Hatchery unroofed; trees and wires down.
Indianola, Iowa, and vicinity	28	11:15 p. m.	-----	-----	18,000	.....do.....	Property damage, \$13,000; loss in crops, \$5,000; path about 18 miles long.
Hutchinson County, S. Dak. extreme eastern portion.	28	-----	-----	-----	1,750	Wind, rain, and hail.	2 granaries destroyed and loss in some crops.
Poweshiek County, Iowa, southern portion.	28-29	-----	-----	-----	50,000	Wind and hail....	Several small barns wrecked and many smaller buildings destroyed or damaged.
Washington County, Iowa..	29	1 a. m.	-----	-----	50,000	Hail.....	No details.
Scott County, Ind.	29	2 a. m.	1 2	-----	1,000	Wind.....	Property damage; heavy loss in crops.
Keokuk County, Iowa.....	29	3 a. m.	-----	-----	95,000	Wind and hail....	Loss in crops, \$85,000; property damage, \$10,000.
Oil City, Pa.	29	5:30 p. m.	1 About 1/4 mile	0	45,000	Tornado.....	Buildings demolished; trees twisted off; wires down; 2 persons injured; path 3 miles long.
Charleston, Ind.	29	7 p. m.	67	0	800,000	.....do.....	7 persons injured; path from west to east and 7 miles long.
Jay County, Ind.	29	-----	-----	-----	1,000	Wind and hail....	Barns damaged.
Madison County, Ind.	29	-----	-----	-----	500	Wind.....	Poles, wires, and trees down.
Easton Rapids, Mich., vicinity of.	29	-----	2,200	-----	22,000	Wind, hail, electrical.	Crop loss, \$20,000; property damage, \$2,000; path 10 miles long.
Elmont, N. Y.	29	-----	-----	-----	2,000	Electrical.....	Pumping station damaged.
Brown & Doniphan Counties, Kans.	30	2 a. m.	1 3	-----	150,000	Heavy hail....	Chief loss in corn; path 20 miles long.
Columbia, Pa.	30	A. m.	-----	-----	1,000	Electrical and Wind	Trees blown down; Property damage.
Glenwood Springs, Colo.	30	4:45-6:30 p. m.	2,200	-----	7,000	Hail.....	Considerable damage to crops and railroad property. More than 2,000 chickens drowned.
Boone and Story Counties, Iowa.	31	4:30 a. m.	1 5	-----	600,000	Hail, wind, electrical, and flood.	Windows broken; property damaged; loss in crops on 8,000 acres of land. Several barns burned. 3.29 inches of rain fell in Boone, Iowa, and 3.58 inches recorded in Ames, Iowa. Path 20 miles long.
Marshall and Jasper Counties, Iowa.	31	7:30-9:30 a. m.	-----	-----	50,000	Wind, electrical, and flood.	From 1.85 to 4.23 inches of rain recorded. All small streams overflowed with highest water in Marshall County and many acres of cropland flooded. Much livestock drowned, one farm losing 23 sheep, another 20 hogs. Considerable damage to roads and highways; basements partially flooded.
Wadena, Minn., vicinity of...	31	7:05 p. m.	100	0	-----	Tornado.....	A funnel cloud observed in the west-southwest, moving east-northeast, dipping to earth several times before it disappeared.
Pope, Douglas, Kandiyohi, and Redwood Counties, Minn.	31	8-11:45 p. m.	-----	0	1,020,000	Tornado and hail....	Property damage, \$120,000; hail loss to growing crops, \$900,000; path 110 miles long.
Mahnomen, Minn., and vicinity.	31	-----	-----	0	60,000	.....do.....	Funnel cloud observed. Damage to property, \$25,000; loss to growing crops from hail, \$25,000.

1 Miles instead of yards.